

## WHAT IS CLAIMED IS:

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A1
1. A polarizer which has the multilayered structure along z-axis consisting of two or more transparent bodies which have different refractive indexes, wherein the shape of layers which is the unit of lamination of each transparent body has regularly undulated structure along x-axis, is uniform along y-axis, or has regularly or non-regularly undulated structure which is larger than x-axis, and has lamination along z-axis repeating the shape, and acts against the light which has a component whose incidence direction is not zero from z-axis in the three-dimensional orthogonal coordinates (x,y,z).
2. A polarizer according to claim 1, wherein the polarizer has a more refractive medium layer containing Si or  $\text{TiO}_2$  as a main component and a less refractive medium layer containing  $\text{SiO}_2$  as a main component.
3. A polarizer which was prepared by laminating a more refractive medium and a less refractive medium with regularly repeating the shape by a film-forming method at least partly including the dry etching on a substrate which has regularly arranged grooves or regularly arranged linear projections or thin and long projections or thin and long grooves.

4. A polarizer which was prepared by laminating a more refractive medium which contains Si or  $\text{TiO}_2$  as a main component and a less refractive medium which contains  $\text{SiO}_2$  as a main component with regularly repeating the
- 5 shape by a film-forming method at least partly including the dry etching on a substrate which has regularly arranged grooves or regularly arranged linear projections or thin and long projections or thin and long grooves.

add B2